

# Specifications — MTP C7 15HD Series

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## Video

Gain .....	Unity
Number/signal type.....	1 set of proprietary analog signals
Connectors .....	1 female RJ-45

## Video input and loop through — transmitters (MTP C7 T 15HD A/RS)

Number/signal type.....	1 analog RGBHV, RGBS, RGsB, RsGsBs, component video (with bi-level or tri-level sync), S-video, or composite video 1 buffered RGBHV, RGBS, RGsB, RsGsBs local monitor loop through (includes ID bits)
Connectors .....	2 female 15-pin HD
Nominal level .....	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	0.3 V to 1.45 Vp-p
Impedance .....	75 ohms
Horizontal frequency.....	15 kHz to 130 kHz
Vertical frequency.....	30 Hz to 150 Hz
Return loss .....	<-30 dB @ 5 MHz
DC offset (max. allowable).....	250 mV

## Video output — receivers (MTP C7 RL 15HD)

Number/signal type.....	1 set of proprietary analog signals 1 analog RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, or composite video
Connectors .....	1 female RJ-45 1 female 15-pin HD
Nominal level .....	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	0.3 V to 1.45 Vp-p
Impedance.....	75 ohms
Return loss.....	<-30 dB @ 5 MHz
DC offset	
Audio (A) models.....	±35 mV with input at 0 offset
All other models.....	<±20 mV with input at 0 offset
Maximum resolution .....	1920x1200

**NOTE** Refer to the user's manual for the maximum distances recommended for specific resolutions.

## Sync

Input type (transmitter) .....	RGBHV, RGBS, RGsB, RsGsBs, bi-level or tri-level for component video
Output type (receivers) .....	RGBHV, RGBS, RGsB, RsGsBs
Standards.....	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level (transmitter) .....	3.5 V to 5.5 Vp-p, unterminated
Output level (receivers).....	0.3 Vp-p for component video (bi-level sync) 0.6 Vp-p for component video (tri-level sync) TTL: 4.0 V to 5.0 V p-p, unterminated for RGBHV, RGBS
Input impedance (transmitters) ..	573 ohms
Output impedance (receivers).....	92 ohms ±8% (25 mA)
Polarity	
Transmitter .....	Positive or negative (follows input polarity)
Receivers.....	Positive or negative (switch selectable)

# Specifications — MTP C7 15HD Series, cont'd

## Audio — MTP C7 T 15HD A, MTP C7 RL 15HD A, MTP C7 RL 15HD A SEQ

Number/signal type.....	1 set of proprietary analog signals
Connector .....	1 female RJ-45
Gain .....	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response .....	20 Hz to 20 kHz, $\pm 1$ dB
THD + Noise.....	0.15% @ 1 kHz, 0.3% @ 20 kHz at nominal level
S/N.....	>70 dB at maximum output (unweighted)
CMRR.....	>43 dB @ 20 Hz to 20 kHz

## Audio input — MTP C7 T 15HD A

Number/signal type .....	1 stereo, unbalanced
Connectors .....	(1) 3.5 mm mini stereo jack
Impedance .....	10k ohms $\pm 1\%$ , unbalanced
Nominal level .....	+4 dBu (1.23 Vrms), -10 dBV (316 mVrms)
Maximum level .....	+12 dBu, (unbalanced) at 1%THD+N

**NOTE** 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV  $\approx$  2 dBu

## Audio output — MTP C7 RL 15HD A, MTP C7 RL 15HD A SEQ

Number/signal type.....	1 mono, balanced/unbalanced
Connector .....	(1) 3.5 mm captive screw connector, 5 pole (uses 3 poles)
Impedance.....	50 ohms balanced, 100 ohms balanced
Gain error .....	$\pm 1$ dB channel to channel
Nominal level .....	+4 dBu (1.23 Vrms), -10 dBV (316 mVrms)
Maximum level.....	>+18 dBm, unbalanced at 1% THD+N

## Control/remote — external device (pass-through, unidirectional or bidirectional)

Serial control port input/output	
MTP C7 T 15HD RS .....	RS-232 via (1) 3.5 mm, 3 pole captive screw connector
MTP C7 RL 15HD RS, MTP C7 RL 15HD RS SEQ	
1 set of proprietary signals on a female RJ-45 jack	
Serial control port output/input	
MTP C7 T 15HD RS .....	1 set of proprietary signals on a female RJ-45 jack
MTP R 15HD RSA D .....	RS-232 via 3 poles of a 3.5 mm captive screw connector, 5 pole

**NOTE** The serial communications link is unidirectional only, transmitter to receiver, **unless** the receiver's directional DIP switch or jumper has been repositioned. The switch or jumper should be repositioned only when the receiver is the only one in the system.

Baud rates) .....	Up to 38400 bps at up to 600' (183 m) (Higher data rates and distances are possible. Performance will vary based on baud rate and cable length.)
Protocol (all other models).....	Data bits = 5 - 8 Stop bits = 1 or 2 Parity = odd, even, none Flow control = XON, XOFF, none

**NOTE** Protocol is mirrored between the transmitter and the receiver.

Serial control pin configurations. Captive screw connector: 1 = TX, 2 = RX, 3 = GND

## General

Required cable type .....	CAT 7
External power supply .....	100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 2 A, regulated
Power input requirements.....	12 VDC, 0.5 A

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Temperature/humidity .....	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling .....	Convection, no vents
Mounting	
Rack mount .....	Yes, with optional 1U, 9.5" deep rack shelf (RSU 129, #60-190-01 or RSB 129, 60-604-01); 1U, 6" deep rack shelf (RSU 126, #60-190-10 or RSB 126, 60-604-10); or VersaTools® 1U, 3.5" deep rack shelf (RSF 123, #60-190-20 or RSB 123, 60-604-20)
Furniture mount .....	Yes, with optional Mini Under-Desk Mounting Kit, part #70-212-01 (MBU 123)
Pole mount .....	Yes, with optional projector mounting kit, part #70-217-01 (PMK 100)
Enclosure type .....	Metal
Enclosure dimensions.....	1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.3 cm H x 10.9 cm W x 7.6 cm D) (Depth excludes connectors.)
Product weight .....	0.4 lbs (0.2 kg)
Shipping weight .....	2 lbs (1 kg)
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliances	
Safety.....	CE, C-tick, CUL, UL
EMI/EMC .....	CE, C-tick, FCC Class A, ICES, VCCI
MTBF.....	30,000 hours
Warranty.....	3 years parts and labor

**NOTE** All nominal levels are at  $\pm 10\%$ .

**NOTE** Specifications are subject to change without notice.

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